

Amendments to the Claims

Claims 1-15 (canceled).

16. (new) A phosphor with a garnet structure and having a composition represented by a formula $[A_{3-a}KA_a]_A[B_{5-b-x}KB_bSi_x]_B[O_{12-s}KC_s]_O:D$ wherein A is a rare earth, B is selected from Al, Ga or a combination thereof, part of B is replaced by Si in a proportion x, D is a rare earth, and KA, KB, KC are charge-compensating components located at lattice sites A, B and O, respectively; and in which the following relationship applies:

$a(m_{KA}-3)+b(m_{KB}-3)+x=s(-m_{KC}-2)$, where m is the valence of the incorporated ion of the charge-compensating components and $s > 0$.

17. (new) The phosphor of claim 16 wherein KC is N.

18. (new) The phosphor of claim 17 wherein $s \leq 1.5$ and $x \leq 1.5$.

19. (new) The phosphor of claim 17 wherein $x=s$.

20. (new) The phosphor of claim 16 wherein $s \leq 2x$.

21. (new) The phosphor of claim 16 wherein A = Y, Tb, Gd, La, or Lu, alone or in combination.

22. (new) The phosphor of claim 16 wherein D = Ce, Pr, or Eu, alone or in combination.

23. (new) The phosphor of claim 22 wherein D = Ce, Pr, or Eu, alone or in combination.

24. (new) The phosphor of claim 16 wherein $x \leq 1$.

25. (new) The phosphor of claim 16 wherein one or more of the elements Mg, N, Be, Na or Li function as one of the charge compensators KA, KB, or KC.

26. (new) A phosphor with a garnet structure and having a composition represented by a formula $A_{3-x/3}B_{5-x}Si_xO_{12}:D$ wherein A is a rare earth, B is selected from Al, Ga or a combination thereof, part of B is replaced by Si in a proportion x, and D is a rare earth.
27. (new) The phosphor of claim 26 wherein $x \leq 0.2$.
28. (new) The phosphor of claim 26 wherein A = Y, Tb, Gd, La, or Lu, alone or in combination.
29. (new) The phosphor of claim 26 wherein D = Ce, Pr, or Eu, alone or in combination.
30. (new) The phosphor of claim 28 wherein D = Ce, Pr, or Eu, alone or in combination.
31. (new) A phosphor with a garnet structure and having a composition represented by a formula $A_3B_{5-x}Si_x[O_{12-s}N_s]O:D$ wherein A is a rare earth, B is selected from Al, Ga or a combination thereof, part of B is replaced by Si in a proportion x, D is a rare earth and $0 < s \leq 2x$.
32. (new) The phosphor of claim 31 wherein $s \leq 1.5$ and $x \leq 1.5$.
33. (new) The phosphor of claim 31 wherein $x=s$.
34. (new) The phosphor of claim 31 wherein A = Y, Tb, Gd, La, or Lu, alone or in combination.
35. (new) The phosphor of claim 31 wherein D = Ce, Pr, or Eu, alone or in combination.
36. (new) The phosphor of claim 34 wherein D = Ce, Pr, or Eu, alone or in combination.
37. (new) The phosphor of claim 16 wherein $x = 0.1$ to 0.5 .

38. (new) A light source comprising the phosphor as claimed in claim 16, in which the primary emission of the light source serves to excite the phosphor and a maximum of the primary emission is in the range from 250 to 550 nm, and in which the primary radiation is at least partially converted into secondary radiation, in particular in order to generate white light.

39. (new) The light source as claimed in claim 38, characterized in that the light source is an LED or OLED or discharge lamp.